Fuel Tank – in-skid day tank C024

> Specification sheet

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Description

In-skid fuel day tanks are designed to fit within the confines of the generator set skid rails and provides a minimum of 1-2 hours of operation at 60 Hz full load standby rating. Cummins Power Generation in-skid fuel day tanks are constructed of aluminized steel which provides the corrosion resistance of aluminum with the inherent strength of steel. Production tanks are leak tested to 5 psi, exceeding minimum testing requirements established by UL.

Certification



ISO9001 - This product was designed and manufactured in facilities certified to ISO9001.



UL listed - Listed to UL (File # MH 16055).

Features

Day tank construction

- Welded construction throughout
- 14 gauge aluminized steel (tanks larger than 12 gallons

Day tank mounting

• Directly to generator set skid

Day tank control

- 240 AC connection
- Silkscreen of circuit schematic (and instructions for full 120/240 V conversion located on the inside top of the cover

Fuel pump

- Automatic control
- Provides 16" Hg (20 ft diesel fuel) vacuum at inlet
- Motor: 115/230 V, ¼ HP connected to 115 V configuration
- Reconnectable to 120 or 240 V AC

Float switch

- 5 level switches: Low shutdown, low fuel level, pump on, pump off and high fuel level
- 1.25" NPT brass plug
- Magnetic reed type
- Switch contact rating: 30 Watts, 28 V DC

Liquid level gauge

Material Head: Die-cast zinc Drive magnet: Alnico Float: Cork-epoxy coated Guide rods: Steel-zinc plated Center shaft: Brass

Visual leak detection

- Tank to foundation ground clearance
- **UL** listed
- File #MH 16055

50/60 Hz Compatible

Manual fill cap

Day Tank Kits

Product		Day Tank C024								
Model Name	Spec Letter	Feature	Kit #	Voltage	Fuel Capacity (nominal/usable gallons)	Instruction Sheet	For use with	Production Part #		
DFAB	N	C024-2	0415-0745	120/240 V AC (see note 2)	19.3/16.8 gal	000G-0068	PCC3100 Control or PCC2100 Dynasty Control	0539-1313-03		
DFAC	N	C024-2	0415-0745	120/ 240 V AC (see note 2)	19.3/ 16.8 gal	000G-0068	PCC3100 Control or PCC2100 Dynasty Control	0539-1313-03		
DFCB	Z	C024-2	0415-0825	120/ 240 V AC (see note 2)	25.7/ 22.6 gal	000G-0068	PCC3100 Control or PCC2100 Dynasty Control	0539-1767-04		
DFCC	Z	C024-2	0415-0825	120/ 240 V AC (see note 2)	25.7/ 22.6 gal	000G-0068	PCC3100 Control or PCC2100 Dynasty Control	0539-1767-04		
DFCE	J	C024-2	0415-0825	120/ 240 V AC (see note 2)	25.7/ 22.6 gal	000G-0068	PCC3100 Control or PCC2100 Dynasty Control	0539-1767-04		
DFEC	L	C024-2	0415-0638	24 V DC (see note 1)	45.9/ 40.4 gal	000G-0068	PCC3100 Control or PCC2100 Dynasty Control	0539-1094-03		
DFED	н	C024-2	0415-0638	24 V DC (see note 1)	45.9/ 40.4 gal	000G-0068	PCC3100 Control or PCC2100 Dynasty Control	0539-1094-03		
DQAD	A-E	C024-2	0415-0745	120/ 240 V AC (see note 2)	19.3/ 16.8 gal	000G-0068	PCC3100 Control or PCC2100 Dynasty Control (Not for use with Sub-base tank or Distribution Panel)	0539-1313-03		
DQAE	A-E	C024-2	0415-0745	120/ 240 V AC (see note 2)	19.3/ 16.8 gal	000G-0068	PCC3100 Control or PCC2100 Dynasty Control (Not for use with Sub-base tank or Distribution Panel)	0539-1313-03		
DQAF	A-E	C024-2	0415-0745	120/ 240 V AC (see note 2)	19.3/ 16.8 gal	000G-0068	PCC3100 Control or PCC2100 Dynasty Control (Not for use with Sub-base tank or Distribution Panel)	0539-1313-03		
DQHAA	А	C024-2	0415-0745	120/240 V AC (see note 2)	19.3/16.8 gal	000G-0068	PCC2100 Dynasty Control (not for use with Sub-base tank or Distribution Panel)	0179-4943-01		
DQHAB	А	C024-2	0415-0745	120/240 V AC (see note 2)	19.3/16.8 gal	000G-0068	PCC2100 Dynasty Control (not for use with Sub-base tank or Distribution Panel)	0179-4943-01		

Control operates on 24 V DC supplied by generator set batteries.
Control operates on 120 V AC or 240 V AC. A transformer supplied in the control provides 24 V DC to the control logic.

Day Tank Kit Features

Kit	Float Switch	Fuel Pump	Gauge – Liquid Level	Day Tank Control
			0415-0565-65	
0415-0745	0308-0913-06	0399-0117-01	(Length 12.5")	0625-2141-01
			0415-0565-55	
0415-0825	0308-0913-01	0399-0117-01	(Length 14.25")	0625-2141-02
			0415-0565-52	
0415-0638	0308-0913	0399-0117-01	(Length 16.38)	0625-2141-01

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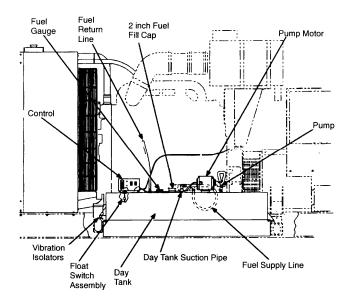


Figure 1 - Typical in-skid fuel day tank (400-500 kW DF series)

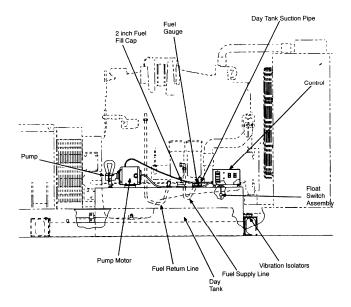


Figure 2 - Typical in-skid fuel day tank (200-350 kW DF series)

Options

Mechanical Fuel Gauge

Pro	duct	Fuel Gauge- Liquid Level H095			
Model Name	Spec Letter	Part #	Kit #		
DFAB	N	0539-0429	NA		
DFAC	N	0539-0429	NA		
DFCB	Z	0539-0429-02	NA		
DFCC	Z	0539-0429-02	NA		
DFCE	J	0539-0429-02	NA		
DFEC	L	0539-0429	NA		
DFED	Н	0539-0429	NA		
DQAD	A, E	NA	NA		
DQAE	A, E	NA	NA		
DQAF	A, E	NA	NA		
DQHAA	Α	NA	NA		
DQHAB	А	NA	NA		

Solenoid Valve

0307-2703: Used as a positive fuel shot-off on the float valve day tank when fuel is supplied from an overhead tank – 24 VDC (normally closed), 3/8 NPT female inlet and outlet, UL Listed.

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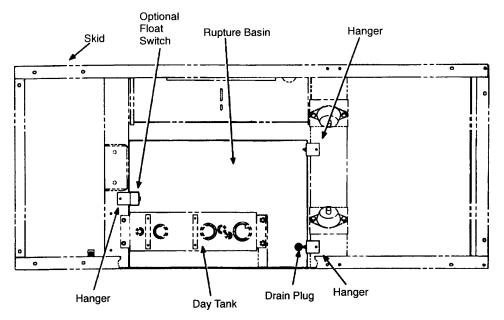


Rupture basin kits for in-skid day tanks

The rupture basin is a containment tank that collects fuel that may overflow from the day tank either due to a leak at the float switch or a fracture in the tank itself. The optional basin alarm switch, when wired into the day tank pump control, will provide indication of leakage. The basin is sized to a minimum 150% of the day tank capacity.

Note: Installation of an in-skid day tank and/or rupture basin will restrict stub-up area between the generator set cross-member supports.

Product		Rupture Basin Kit C142				Rupture Basin Switch Kit C158			
Model Name	Spec Letter	Part #	Kit #	Instruction Sheet	Rule	Part #	Kit #	Instructio n Sheet	Also Required
DFAB	N	0539-1312	0415-0731	000G-0110	Not for use with C150-2 or Sub- base tanks or Distribution panel	0539-1286	0415-0696	000G-0118	C142-2 or C168-2
DFAC	N	0539-1312	0415-0731	000G-0110	Not for use with C150-2 or Sub- base tanks or Distribution panel	0539-1286	0415-0696	000G-0118	C142-2 or C168-2
DFCB	z	0539-1693-01 0539-1693-02	0415-0837 N/A	000G-0110 N/A	Does not include C158 Includes C158	N/A Included in 0539-1693-02	N/A N/A	N/A N/A	N/A N/A
DFCC	z	0539-1693-01 0539-1693-02	0415-0837 N/A	000G-0110 N/A	Does not include C158 Includes C158	N/A Included in 0539-1693-02	N/A N/A	N/A N/A	N/A N/A
DFCE	J	0539-1693-01 0539-1693-02	0415-0837 N/A	000G-0110 N/A	Does not include C158 Includes C158	N/A Included in 0539-1693-02	N/A N/A	N/A N/A	N/A N/A
DFEC	L	0539-1095	0415-0681	N/A	Not for use with C150-2 or Sub- base tanks or Distribution panel	0539-1286	0415-0696	000G-0118	C142-2 or C168-2
DFED	Н	0539-1095	0415-0681	N/A	Not for use with C150-2 or Sub- base tanks or Distribution panel	0539-1286	0415-0696	000G-0118	C142-2 or C168-2
DQAD	A, E	0539-1312	0415-0731	000G-0110	Not for use with C150-2 or Sub- base tanks or Distribution panel	0539-1286	0415-0696	000G-0118	N/A
DQAE	A, E	0539-1312	0415-0731	000G-0110	Not for use with C150-2 or Sub- base tanks or Distribution panel	0539-1286	0415-0696	000G-0118	N/A
DQAF	A, E	0539-1312	0415-0731	000G-0110	Not for use with C150-2 or Sub- base tanks or Distribution panel	0539-1286	0415-0696	000G-0118	N/A
DQHAA	А	0179-4963	N/A	N/A	Not for use with C150-2 or Sub- base tanks or Distribution panel	0539-1286	0415-0696	000G-0118	C142-2 or C168-2
DQHAB	А	0179-4963	N/A	N/A	Not for use with C150-2 or Sub- base tanks or Distribution panel	0539-1286	0415-0696	000G-0118	C142-2 or C168-2





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Warning: Back feed to a utility system can cause electrocution and/or property damage. Do not connect generator sets to any building electrical system except through an approved device or after building main switch is open.

Warning: For professional use only. Must be installed by a qualified service technician. Improper installation presents hazards of electrical shock and improper operation, resulting in severe personal injury and/or property damage.

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